

THAMES RIVER BASIN

01119375 WILLIMANTIC RIVER AT MERROW, CT

LOCATION.--Lat 41°50'07", long 72°18'38", Tolland County, Hydrologic Unit 01100002, at bridge on State Highway 195, 0.7 mi upstream from Merrow, 0.8 mi downstream from Newcomb Brook, and 1.5 mi upstream from Winding Brook.

DRAINAGE AREA.--94.0 mi².

PERIOD OF RECORD.--Water year 1974 to current year.

REMARKS.--Discharges shown for this location are computed by determining the discharge for station 01119384, 2.0 mi downstream, and adjusting its discharge by multiplying by a factor of 0.98, which is the ratio of the two stations' drainage areas.

Samples for dissolved aluminum and zinc collected from May through September 2000 were reanalyzed because of possible contamination in the lab; those samples that could not be reanalyzed have been updated to the original concentration with a "less-than" (<) data qualifier.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	SPE-CIFIC CON-DUCT-ANCE LAB (US/CM) (90095)	PH WATER FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	TUR-BID-ITY (NTU) (00076)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (MG/L) (00301)	COLI-FORM, FECAL, 0.45 UM-MF (COLS./100 ML) (31616)
NOV 22...	1210	98	102	101	7.1	14.5	7.0	2.1	12.9	107	120
JAN 26...	1530	--	101	98	6.6	-1.0	.5	3.6	13.0	92	840
MAR 14...	1230	412	71	74	6.8	13.5	4.0	1.5	13.6	103	110
MAY 11...	1315	423	80	83	7.1	25.5	15.0	1.6	10.3	104	K15
JUN 12...	1400	364	75	77	7.0	15.5	17.0	3.0	9.1	95	240
JUL 06...	1430	58	112	115	7.2	23.0	23.0	2.4	9.0	107	130
AUG 17...	1400	68	99	101	7.3	21.0	20.5	2.1	8.6	97	200
SEP 13...	1225	31	155	157	7.6	24.5	22.5	.4	8.4	99	K260
DATE	ENTERO-COCCI ME,MF WATER TOTAL (COL / 100 ML) (31649)	ENTERO-COCCI (MEI) MF 24 HOUR (COL / 100 ML) (90909)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	CAR-BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	BICAR-BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	ALKA-LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)
NOV 22...	K13	--	19	4.73	1.85	8.9	1.5	0	9	7	12.6
JAN 26...	228	--	19	4.52	1.84	9.0	1.3	0	11	9	10.9
MAR 14...	20	--	14	3.33	1.27	7.2	.9	0	6	5	8.3
MAY 11...	--	580	15	3.61	1.42	7.4	1.1	0	9	7	8.2
JUN 12...	--	136	15	3.68	1.41	7.2	.9	0	10	8	7.3
JUL 06...	--	43	22	5.55	1.95	11.5	1.9	0	12	10	9.4
AUG 17...	--	31	19	4.87	1.72	9.7	1.8	0	12	10	8.4
SEP 13...	--	88	26	6.65	2.18	16.6	2.9	0	16	13	18.8
DATE	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, RESIDUE AT 105 DEG. C, TOTAL (MG/L) (00500)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)
NOV 22...	13.2	<.1	9.0	71	72	<.010	.382	.058	.21	.27	.20
JAN 26...	13.0	<.1	10.4	65	68	<.010	.305	.162	.27	.43	.27
MAR 14...	10.4	<.1	7.3	49	51	<.010	.223	<.020	--	.22	.16
MAY 11...	11.0	<.1	6.4	51	57	<.010	.186	<.020	--	.38	.20
JUN 12...	10.0	<.1	7.4	56	58	<.010	.222	.030	.28	.31	.20
JUL 06...	14.8	<.1	7.7	76	77	<.010	.468	<.020	--	.36	.26
AUG 17...	12.7	<.1	7.8	68	71	<.010	.378	<.020	--	.38	.26
SEP 13...	18.8	.1	6.1	96	98	<.010	.482	<.020	--	.35	.33

01119375 WILLIMANTIC RIVER AT MERROW, CT--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	NITRO- GEN, TOTAL (MG/L AS N) (00600)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	ALUM- INUM, DIS- SOLVED (UG/L AS AL) (01106)	ANTI- MONY, DIS- SOLVED (UG/L AS SB) (01095)	BARIUM, DIS- SOLVED (UG/L AS BA) (01005)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE) (01010)	CADMIUM DIS- SOLVED (UG/L AS CD) (01025)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR) (01030)	COBALT, DIS- SOLVED (UG/L AS CO) (01035)
NOV 22...	.65	.009	E.004	<.010	29	<1	10	<1	<1.0	<.8	<1
JAN 26...	.74	.035	.012	<.010	30	<1	10	<1	<1.0	<.8	<1
MAR 14...	.44	.016	E.004	<.010	50	<1	9	<1	<1.0	<1.0	<1
MAY 11...	.57	.025	.013	<.010	62	<1	9	<1	<1.0	<.8	<1
JUN 12...	.54	.038	.015	<.010	<42	<1	8	<1	<1.0	<.8	<1
JUL 06...	.83	.041	.015	<.010	24	<1	8	<1	<1.0	.9	<1
AUG 17...	.76	.029	.016	<.010	32	<1	7	<1	<1.0	<.8	<1
SEP 13...	.84	.022	.012	<.010	21	<1	10	<1	<1.0	<.8	<1

DATE	COPPER, DIS- SOLVED (UG/L AS CU) (01040)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	LEAD, DIS- SOLVED (UG/L AS PB) (01049)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO) (01060)	NICKEL, DIS- SOLVED (UG/L AS NI) (01065)	SILVER, DIS- SOLVED (UG/L AS AG) (01075)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)	URANIUM NATURAL DIS- SOLVED (UG/L AS U) (22703)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)
NOV 22...	2	150	<1	19	<1	1	<1	4	<1	4.2
JAN 26...	1	100	<1	24	<1	1	<1	7	<1	5.6
MAR 14...	<1	80	<1	25	<1	1	<1	7	<1	4.0
MAY 11...	2	210	<1	22	<1	1	<1	7	<1	5.0
JUN 12...	1	240	<1	20	<1	1	<1	<5	<1	5.9
JUL 06...	2	230	<1	13	<1	2	<1	2	<1	4.7
AUG 17...	3	470	<1	14	<1	2	<1	4	<1	5.7
SEP 13...	13	290	<1	20	<1	2	<1	5	<1	4.5